

1/8

10 30 50
 AAGGGAACGTGTTTCTCCCCTCGTTTGGTCATGGAGGCGCTGCCCTGCTAGCCGCGACA
 M E A L P L A A T
 70 90 110
 ACTCCGGACCACGGCCGCCACCGAAGGCTGCTTCTGCTGCCGCTACTGCTGTTCTCTGCTG
 T P D H G R H R R L L L L P L L L F L L
 130 150 170
 CCGGCTGGAGCTGTGCAGGGCTGGGAGACAGAGGAGAGGCCCGGACTCGCGAAGAGGAG
 P A G A V Q G W E T E E R P R T R E E E
 190 210 230
 TGCCACTTCTACGCGGGTGGACAAGTGTACCCGGGAGAGGCATCCCGGGTATCGGTGCGC
 C H F Y A G G Q V Y P G E A S R V S V A
 250 270 290
 GACCACTCCCTGCACCTAAGCAAAGCGAAGATTTCCAAGCCAGCGCCCTACTGGGAAGGA
 D H S L H L S K A K I S K P A P Y W E G
 310 330 350
 ACAGCTGTGATCGATGGAGAATTTAAGGAGCTGAAGTTAACTGATTATCGTGGGAAATAC
 T A V I D G E F K E L K L T D Y R G K Y
 370 390 410
 TTGGTTTTCTTCTTCTACCCACTTGATTTCACATTTGTGTGTCCAACCTGAAATTATCGCT
 L V F F F Y P L D F T F V C P T E I I A
 430 450 470
 TTTGGCGACAGACTTGAAGAATTCAGATCTATAAATACTGAAGTGGTAGCATGCTCTGTT
 F G D R L E E F R S I N T E V V A C S V
 490 510 530
 GATTCACAGTTTACCCATTTGGCCTGGATTAATACCCCTCGAAGACAAGGAGGACTTGGG
 D S Q F T H L A W I N T P R R Q G G L G
 550 570 590
 CCAATAAGGATTCCAATTCTTTTCAATTTGACCCATCAGATCTCAAAGGACTATGGTGTA
 P I R I P L L S D L T H Q I S K D Y G V
 610 630 650
 TACCTAGAGGACTCAGGCCACACTCTTAGAGGTCTCTTATTGATGACAAAGGAATC
 Y L E D S G H T L R G L F I I D D K G I
 670 690 710
 CTAAGACAAATTACTCTGAATGATCTTCTGTGGGTAGATCAGTGGATGAGACACTACGT
 L R Q I T L N D L P V G R S V D E T L R
 730 750 770
 TTGGTTCAAGCATTCCAGTACACTGACAAACACGGAGAAGTCTGCCCTGCTGGCTGGAAA
 L V Q A F Q Y T D K H G E V C P A G W K
 790 810 830
 CCTGGTAGTGAAACAATAATCCAGATCCAGCTGGAAAGCTGAAGTATTTGATAAACTG
 P G S E T I I P D P A G K L K Y F D K L
 850 870 890
 AATTGAGAAATACTTCTTCAAGTTATGATGCTTGAAAGTTCTCAATAAAGTTCACGGTTT
 N
 910
 CATTACCACAAAAAAA

FIG.1

099146 04401

Consensus #1
Majority

	...	T	A	V	...	G	.	F	K	...	L	...	G	K	Y	.	V	.	F	F	Y										
	F	K	A	T	A	V	-	D	G	E	F	K	E	L	S	L	S	D	Y	K	G	K	Y	V	V	F	F	F	Y		
	W	E	G	T	A	V	I	-	D	G	E	F	K	E	L	K	L	T	D	Y	R	G	K	Y	L	V	F	F	F	Y	
88	F	K	A	T	A	V	M	P	D	G	Q	F	K	D	I	S	L	S	D	Y	K	G	K	Y	V	V	F	F	F	Y	
15	F	K	A	T	A	V	-	D	G	A	F	K	E	V	K	L	S	D	Y	K	G	K	Y	V	V	L	F	F	F	Y	
15	F	K	G	T	A	V	V	-	N	G	E	F	K	E	L	S	L	D	D	F	K	G	K	Y	L	V	L	F	F	F	Y
73	F	K	A	T	A	V	M	P	D	G	Q	F	K	D	I	S	L	S	E	Y	K	G	K	Y	V	V	F	F	F	Y	
15																															

Consensus #1
Majority

	P	L	D	F	T	F	V	C	P	T	E	I	.	A	F	.	.	.	.	.	.	F	.	.	.	.	.	.	V	.
	P	L	D	F	T	F	V	C	P	T	E	I	I	A	F	S	D	R	A	E	E	F	K	K	L	N	C	E	V	V
117	P	L	D	F	T	F	V	C	P	T	E	I	I	A	F	G	D	R	L	E	E	F	R	S	I	N	T	E	V	V
45	P	L	D	F	T	F	V	C	P	T	E	I	I	A	F	S	D	R	A	E	E	F	K	K	L	N	C	Q	V	I
44	P	L	D	F	T	F	V	C	P	T	E	I	I	A	F	S	N	R	A	E	D	F	R	K	L	G	C	E	V	L
102	P	L	D	F	T	F	V	C	P	T	E	I	V	A	F	S	D	K	A	N	E	F	H	D	V	N	C	E	V	V
45	P	L	D	F	T	F	V	C	P	T	E	I	I	A	F	S	D	R	A	D	E	F	K	K	L	N	C	Q	V	I

Consensus #1
Majority

	...	S	V	D	S	.	F	.	H	L	A	W	.	N	T	P	...	G	G	L	G	.	I	.	L					
	G	A	S	V	D	S	H	F	C	H	L	A	W	I	N	T	P	R	K	Q	G	G	L	G	P	M	N	I	P	L
147	A	C	S	V	D	S	Q	F	T	H	L	A	W	I	N	T	P	R	Q	G	G	L	G	P	I	R	I	P	L	
75	G	A	S	V	D	S	H	F	C	H	L	A	W	V	N	T	P	K	Q	G	G	L	G	P	M	N	I	P	L	
74	G	V	S	V	D	S	Q	F	N	H	L	A	W	I	N	T	P	R	K	E	G	G	L	G	P	L	N	I	P	L
132	A	V	S	V	D	S	H	F	S	H	L	A	W	I	N	T	P	R	K	N	G	G	L	G	H	M	N	I	T	L
75	G	A	S	V	D	S	H	F	C	H	L	A	W	I	N	T	P	K	Q	G	G	L	G	P	M	N	I	P	L	

FIG. 2B

Consensus #1
Majority

177 D D Y G V G R G L F I I D
L S D P T R T I S Q D Y G V L K A D E G I A L R G L F I I D 210
190
177 L S D L T H Q I S K D Y G V Y L E D S G H T L R G L F I I D
105 V S D P K R T I A Q D Y G V L K A D E G I S F R G L F I I D
104 L G D V T R R L S E D Y G V L K T D E G I A Y R G L F I I D
162 L S D I T K Q I S R D Y G V L L E S A G I A L R G L F I I D
105 I S D P K R T I A Q D Y G V L K A D E G I S F R G L F I I D

NKEF C
NKEF A
NKEF B
MER5
MSP23

Consensus #1
Majority

207 D N D . P . . . R S V . E . . . R L V . A F Q
D K G I L R Q I T V N D L P V G R S V D E T L R L V Q A F Q 240
220
207 D K G I L R Q I T L N D L P V G R S V D E T L R L V Q A F Q
135 D K G I L R Q I T V N D P C C R S V D E T L R L V Q A F Q
134 G K G V L R Q I T V N D L P V G R S V D E A L R L V Q A F Q
192 P N G V V K H L S V N D L P V G R S V E E T L R L V K A F Q
135 D K G I L R Q I T I N D L P V G R S V D E I I R L V Q A F Q

NKEF C
NKEF A
NKEF B
MER5
MSP23

Consensus #1
Majority

237 H G E V C P A . W . P . S . T I . P Y
F T D K H G E V C P A G W K P G S D T I K P D V X K S K E Y 270
250
237 Y T D K H G E V C P A G W K P G S E T I I P D P A G K L K Y
165 F T D K H G E V C P A G W K P G S D T I K P D V P K T K E Y
164 Y T D E H G E V C P A G W K P G S D T I K P N V D D S K E Y
222 F V E T H G E V C P A N M T P E S P T I K P S P T A S K E Y
165 F T D K H G E V C P A G W K P G S D T I K P D V N K S K E Y

NKEF C
NKEF A
NKEF B
MER5
MSP23

FIG. 2C

267	F	D	K	L	N	.
195	F	S	K	-	Q	K
194	F	S	K	-	H	N
252	F	E	K	V	H	Q
195	F	S	K	-	Q	K
<hr/>						
F . K . . .						
F S K - Q K						
<hr/>						
Consensus #1						
Majority						
NKEF C						
NKEF A						
NKEF B						
MER5						
MSP23						

FIG. 2D

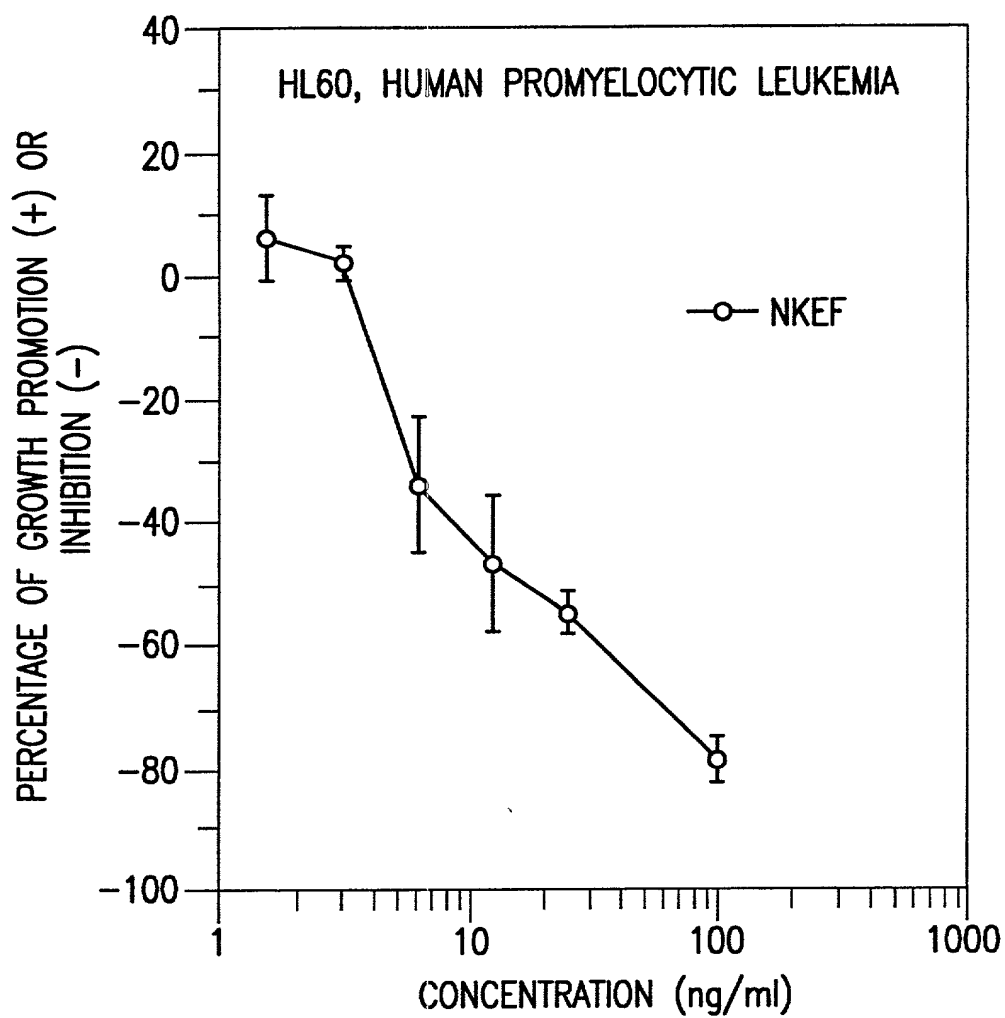


FIG.3

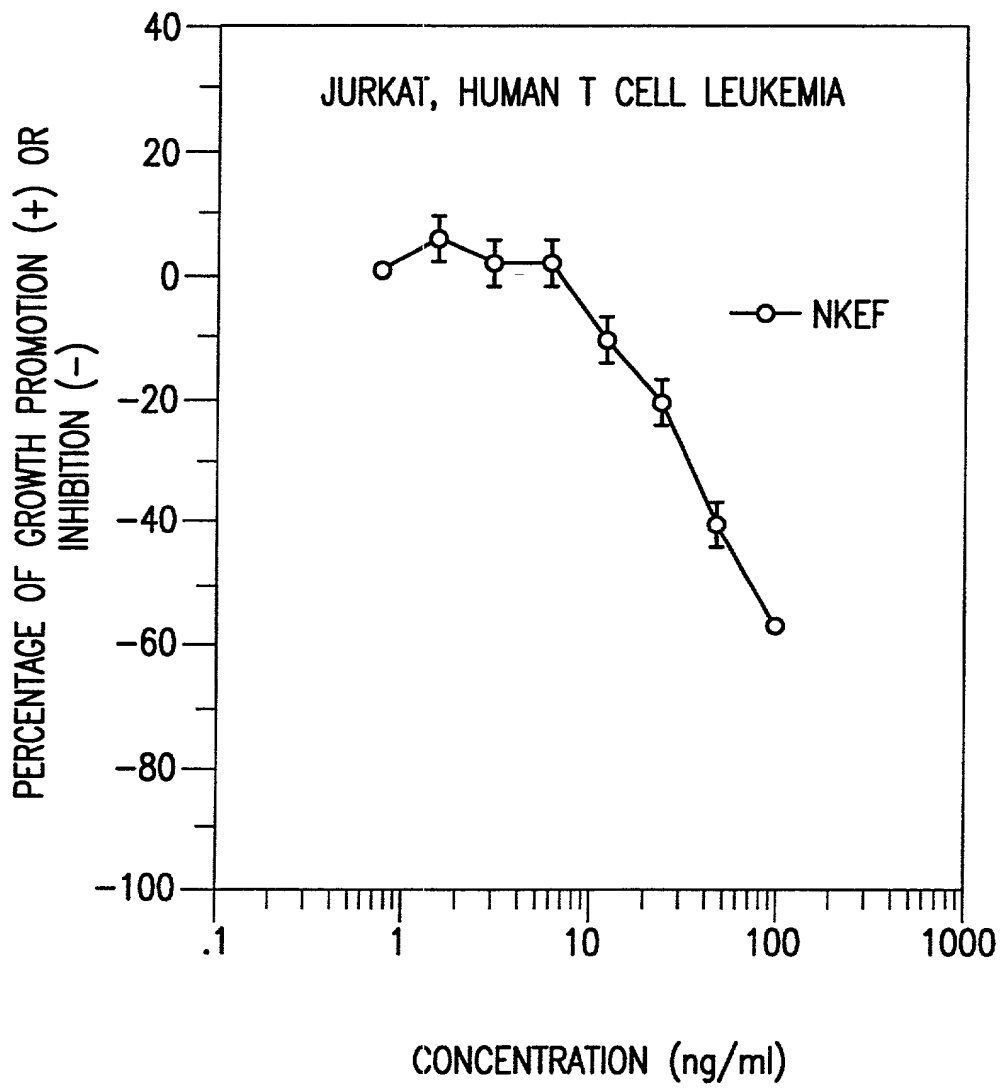


FIG.4

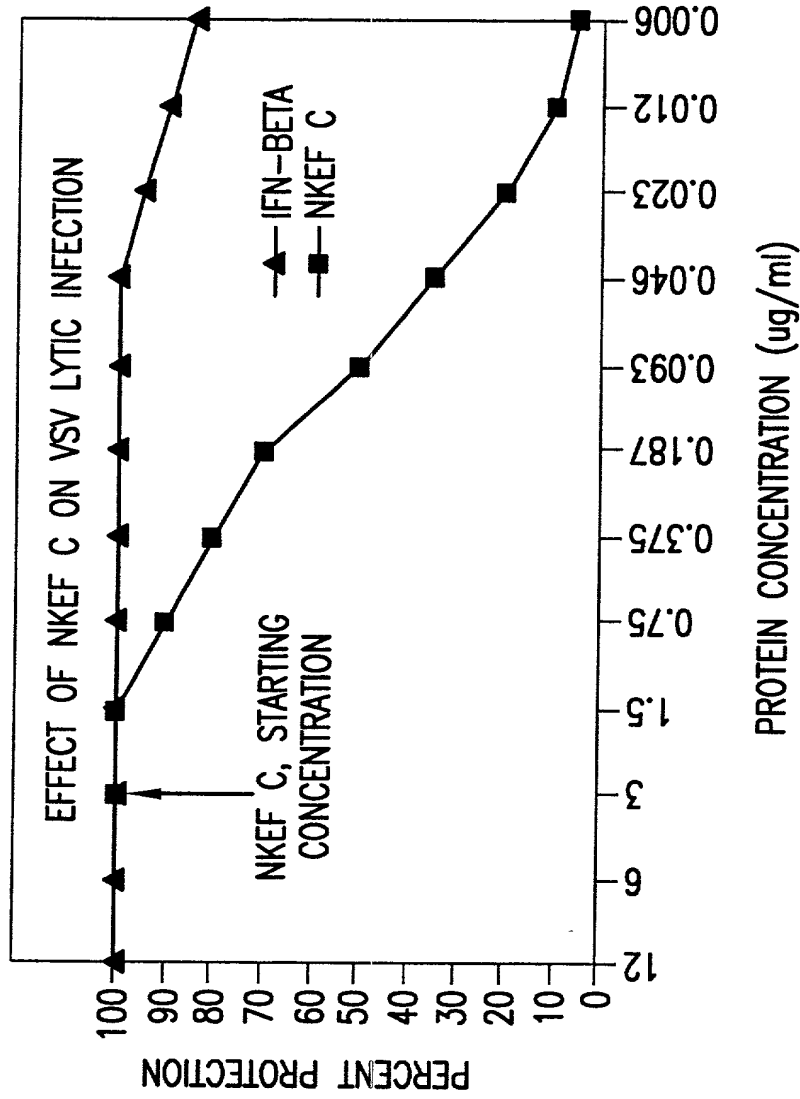


FIG.5